## LEOPARD MOTH; DANGEROUS INSECT PEST

The injection of bisulphid of carbon into the burrows of the leopard moth and the cutting off and destroying of affected branches are recommended as the most effective measures for getting rid of this pest. The insect feeds on the wood of a large number of shade trees and shrubs and does much damage along the Atlantic scaboard between Massachusetts and New Jer-sey and in the Hudson River Vaticy In the caterpillar, or larva stage, the leopard moth eats into the trees upon which it feeds, and not only checks its growth, but so weakens it that it is often broken by heavy windstorms.

The presence of the pest is indicated

by the wilting of twigs or branches and by accumulations of sawdust-like castings at the entrance of the burrows. The discovery of this evidence should be followed promptly by the should be followed promptly by the pruning away of all the smaller in-jured twigs or branches. The larger ones may be cut back behind the injury and the stubs covered with grafting wax to prevent the entrance of other insects. All the woods that has been cut away should be promptly burned, in order to destroy the caterpillars within. This precaution also should be followed with all branches that have fallen to the ground after Wherever the trees are so badly injured that there is little hope of their recovery, it is best to take them out and promptly destroy them. In the case of trees which are only slightly affected, and especially in the case of large and valuable trees, bisulphid of carbon can be used effec-tively. It is injected into the openings of the burrows with a long-spouted oil can or a glass syringe, and the openings are closed immediately afterwards. referably with grafting wax. Carbon bisulphid must be handled

with care, and precautions taken to avoid danger from fire and the in-haling of fumes. This means that the operator should not smoke while at work. On the other hand, there need be no fear of the liquid damaging the

has a spotted appearance, the semi-transparent white wings being thickly dotted with blackish, dark blue, or greenish spots. There are also large black spots on the thorax and dark cross bands on the white abdomen. The moth lays its eggs, either singly or in groups, during the summer, usually selecting crevices in the rough bark of trees as a convenient place to deposit them. The larvae or caterpildeposit them. The larvar of carrwards of this borer has not been definitely and at once penetrate the living wood. determined, but they possess a certain pupa or chrysalls stage. This it does in May or later, and some time between May and the end of September if emerges as an adult or moth.

Damage by this borer in large parks

often so severe as to render it neces-iry to establish a system of inspec-

and others which show only a few larval burrows in the bark, hisulphid of carbon is the best remedy and one which has been in general use against the present species in the public parks of New York City. It is injected into the openings of the burrows, and the openings are immediately atterwards on the constitution of this protracted drought many of our farmers will be so auxious to follow their land and plant their crops when rain comes that I fear some will not walt to present special contents. about 16 cents. These glass syringes are most serviceable because the exact amount of bisulphid may be seen when drawn into the syringe and because there is no threading to be injured by the reagent. Metal syringes may also be used, but it is more difficult to measure the exact amount, and the bisulphid acts on the leather packing. Hubber syringes are not serviceable because of rapid corrosion. About a teaspoonful of the lead bisulphid is sufficient for each burrow.

For stopping the holes after injecting the liquid, patty and moist clay, advised by some, have been found practically useless. Grafting wax, on the other hand, gives perfect satisfaction.

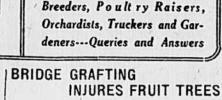
So don't be in tongreat a hurry to plant your crops, but get a perfect seedbed before plum, and the results will be sufficiently gratifying to you to justify me in gratifying to you to justify me

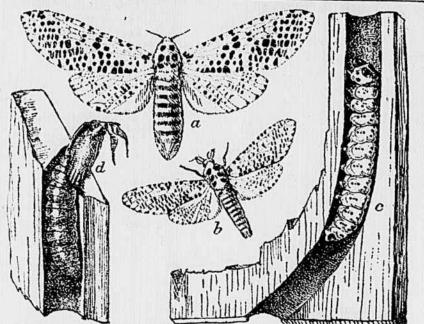
plug and breaking or sawing it off even with the trunk. In any case the stopper should be tight to exclude water from rains, which might tend to produce decomposition of the surrounding wood or invite the entrance of other insects, like carpenter and other auts and secondary berers, of that was palatable when corn fodder which there are many species, and integral to the considered almost the provided a feed that was palatable when corn fodder and stalks would not be relished. Now, however, stlage is considered almost the bear can be shrubs.

Climbly the bear can be shrubs.

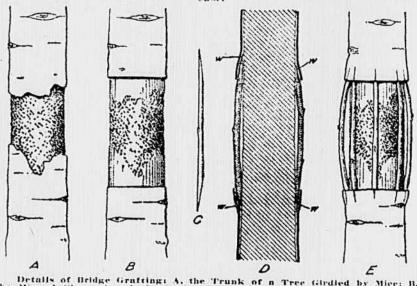
Climbly the bear can be shrubs.

A sai torious fund.





The Leopard Moth: a. Adult Pemale; b. Adult Male; c. Lurvae; d, Smpty Pupal Case.



Details of Bridge Grafting: A, the Trunk of a Tree Girdled by the Wound Cleansed and the Hark Along the Margins Trimmed Healthy, Growing Tissue: C, a Selon with Beveled Ends Ready for t D. Longitudinal Section of the Trunk with Selons in Place, Showl Insertion Under the Bark of the Trunk (w); E. Selons in Place B Waying.

As they feed, they burrow tunnels which frequently encircle completely the tree or branch. When the larva around electric-light poles in and about has grown too large for the branch in parks to attract the moths. The pans which it is feeding. It crawls out and a grown too large the branch in parks to attract the moths. The pans which it is feeding. It crawls out and a grown too have to one more suitable. has grown too large for the branch in which it is feeding. It crawls out and moves to one more suitable. As the insect remains in the larva stage, feeding in this way, for nearly two years, it is capable of doing a great deal of damage before it transforms to the contact with the oil. In this way many makes can be destroyed.

## ADVICE TO SOUTHSIDERS

for Dinwiddle County, writes as folnot allowed to breed in growth that is near valuable trees. The use of fer-tilizers will strengthen the trees to of life of this boter, which will apply in the main to borers in general, renders it very difficult of treatment by market at any price, and those we get insecticides or other direct will be of very poor quality. I hearmeasures. The most efficacious remedial measure consists in cutting off and destroying affected branches and in the injection of bisulphid of carbon we may do our best at saving seed and We will still be short of about one-half Twigs or branches which, by their of the seed we will need. To overcome from one twig or branch to another.

In the case of young and rare trees and others which show only a few them to all who will use them and redemonstrators. We agents have on hand these blank application eards for

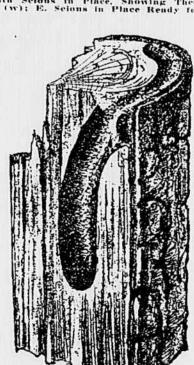
closed with various substances. For that I fear some will not wall to pre-this injection a mechanic's long-spouted pare a good seedbed first; all such will this injection a mechanic's long-spouted oil can of small size may be used on large trees, but against a related species the writers have made very good use of a small glass syringe, such as may be purchased at drug stores for about 16 cents. These glass syringes are most servigeable because the extension of bisulphial may be seen too great a hurry to plant your crops, and the seen too great a hurry to plant your crops,

Crowding a herd of all sizes together, possible in the morning infrequent changes of feeding and the last thing at night.

which there are many species, and injurious funding.

It is possible to reach and destroy many larvae by foreign copper or other pliable wire into the channels. This short pasture it takes the place of that impossible, however, by this means to kill the insects in all cases, owing to the length or crookedness of the buserows. Blsulphid of carbon should then be used.

To what extent electric or other the control of the cont To what extent electric or other pend upon pastures. It is then that bright lights are serviceable as an the silo with its supply of fresh feed agency in the destruction of the moths: supply of fresh feed



Slight elevations are better for grapes than bottom lands.

In the artificial adornment of grounds

nstructor. From her we may learn the uses of grass, flowers, vines, shrubs how to combine them to the best advantages.

More Toulouse are raised than of ony or possibly all other breeds of

A very satisfactory turkey house is a long, open-front shed, with a single-pitch roof, that can be divided into compartments, each connected with a separate runway, so the prevailing winds.

The proper preparation for an apple orehard is deep, rich, mellow soil that will not become water-soaked.

Deep mellow soil is required for the asful cultivation of peas.

The hatching power of an egg de

Calves should be fed milk three times a day, at least, till they are seven weeks of age. Feed them as early as possible in the morning, at noon and

Climbing plants meet a demand in the beautifying of a farm home which can be filled neither by trees nor

Facts for Farmers, Stock

Bridge grafting, the use of scions er small limbs to connect the cambium above and below a large wound or girdle strip, may be practiced success- stocks and allied specialties went lowfully on almost any kind of fruit tree er. that can be propagated readily by The Reading episode, which carried grafting. It is used more often with the common and, second preferred isand cherries. Peaches, however, graft less readily, and there may be some question as to the usefulness of the method in the case of this fruit.

remedied are usually inflicted by animals, by burrowing insects or by implements carelessly used. Various diseases, such as pear blight, also cause local injuries which may call for bridge grafting. The trunks of pear trees are not infrequently completely girdled and killed by pear blight. Bridge grafting, if done in time, however, may save the tree. The method also is useful when large areas of bark have been killed by sun scald or other troubles. Protection of trees against rabbits and mice and disease is, of course, better rotection of trees against rabbits and nice and disease is, of course, better han having to bridge-graft to overome damage.

To be effective, bridge grafting nice and disease is, of course, better han having to bridge-graft to overcome damage.

cutting away all dead tissue and thor-oughly cleansing the injured parts. If possible, sterilize by washing with a solution of bichloride of mercury, copper sulphate, or some other antiseptic. The irregular edges of the bark above the girdled tract or wound should be cut back into an even edge, far enough from the wound to make certain that healthy camblum is under the bark.
For the grafting, select scions from wood of the previous season's growth either branches which grew the pre-ceding season or water sprouts that are only a year old. The scions should be a little longer than the space which is to be bridged, so they will arch slightly over the central part of the

same side of the scion with a long sloping cut so that the wedge-shaped under the bark without danger of sep-arating it unduly from the cambium at the points of insertion. The placing at the points of insertion. The placing of the scions will be facilitated if the bark at the margins of the wound is slit for a short distance at the points.

In placing the scions it is of the greatest importance that the cambium of the scions which is exposed in the sloping cuts at the ends be brought into intimate contact with the cambium that lies under the bark at the margins of the wounded area. The margins of the wounded area. union of scion and tree can occur only where the cambium layers of the two
come together. The scions may be
secured in their proper positions, if
need be, by driving a small nail
through each end into the trunk. This will aid in drawing the cambium of scion and trunk closely together.

The operation is completed by thor oughly covering the area occupied by the ends of the scions and the mar-gins of the wound with grafting wax strips of waxed cloth, or by some means that adequately will prevent these parts from drying out some operators cover the entire wound, scions and all, with melted wax. Where the bridged portion is below or near the ground, many operators conserve moisture by covering the grafts with earth.

possible, another method of bridging may be used. Two-year-old trees are trees and their tons grafted into its trunk above the girdled space, which has first been cleaned as in the other method. As the tops of the small trees are too large to manipulate read-ily in the manner described for scions, V-shaped vertical grooves extending brough the cambium are cut just above he wounded area in the bark of the tree to be treated. The tops of the small trees are shaped to correspond with these grooves. The two are then accurately fitted together in such a manner as to bring the cambium of one nto contact with that of the other, small nails may be driven through the ops of the trees into the trunk, to hold the parts firmly together. The wounds incident to joining the tops of the small trees to the trunk of the large one should be well covered with wax, to prevent drying out. Sometimes cord tied around the trunk to aid in holding the tops of the young trees in proper position.

While bridge grafting is seldom used on shade or other ornamental trees, W. F. Fletcher, the author of a most instructive bulletin on Bridge Grafting (No. 710), which has been recently issued by the United States Department of Agriculture, writes that this method of grafting would probably prove successful in overcoming certain types of injuries to them. It is certainly well worth trying.

## Small Fruits.

Strawberries, raspberries and black-berries are of a very perishable na-ture. They must be picked when just right, and if allowed to become over ripe they become soft and are re-jected by customers. This is a loss to the grower. The strawberry must to the grower. The strawberry must be reset every three or four years for the hest success, while the raspberry and blackberry should be reset every five or six years. This always means a large amount of careful and painstaking work.

BE SURE TO PLANT SOME PRETTY VINES

Morning-glories, cypress vines, sweet peas, guards, nasturtiums. Japanese hops, wild cucumber, hyacinth bean are among our most desirable annual climbers. Seeds of them do not cost much, and a package of one or the other will yield shade, beauty and grace

The sides of a steep terrace or bank The dairy barn should be roomy, clean, dry, light and well ventilated.

A sandy loam, well drained and watered, intensively cultivated, and supof long wreaths of small, thickly set leaves, that look as though they were varnished. In June it literally covers tself with large white single roses.

The Virginia creeper, honeysuckle nasturtiums and moon vines are trailers rather than climbers. Of garden plants, the sweet potato and the dew-To produce good milk, cows must be as trailers. They give edibles instead

## TWO DISTINCT PERIODS IN STOCK MARKET'S WEEK

Currency of Peace Rumors and Spur of Reading Send Prices

NEW YORK, N. Y., May 21.-Two distinct periods marked the week in the stock market, the first half being characterized by indecision and irregularity on the greater currency given to peace rumors, and the other half witnessing a sensational upward movement in Reading, which helped to advance other rails, while war

the apple than any other fruit, but sues to new high records, lacked ofpear trees often are treated in this way, especially in certain sections. There seems to be no reason why the method should not also be successful on plums readjustment of the company's affairs is not far distant. Selling of specialties was more or

less continuous, motors suffering the te greater losses. United States Steel Mechanical injuries which may be greater losses. United States Steel was an exception to the general run

should be done in the spring before gratting the done after growth starts, though sometimes it can be done after growth starts if dormant scions for the purpose can be secured.

Prepare the wound in the tree by cutting away all dead tissue and thor-

The psychological effect of the vious week's preparedness parade was made the occasion of considerable dis-cussion, particularly in its possible relation to the coming political con-ventions. General trade advices in-dicated a gradual return to more nor-

## DELIVERS PEACE MESSAGE Rev. Charles E. Reynall, D. D., Delivers Baccalaureste Sermon at Salem Female College.

[Special to The Times-Dispatch.] WINSTON-SALEM, N. C., May 21—
Rev. Charles E. Reynall, D., D., of
Statesville, gave a beautiful and practical peace message in the Moravian
Church to-day, the occasion being the
baccalaurcate sermon in connection
with the annual commencement of
Salem Female College.

Unity, peace and happiness were dister." He pleaded with the young women to live the life of love, faith

Dr. Reynall declared that he longed to see more men "skyscrapers" in things spiritual, as they are industri-

To-morrow will be the senior class ay. There will be class reunion day. There will be class reunion meetings, an alumnae luncheon and business meetings. At night the grand concert will be given. Goundd's opera, "Romeo and Juliet," will be presented.



# PERFECT PROTECTION

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W. M. Hableston, President.

J. W. Rothert, 1st Vice-Pres. John G. Walker, 2d Vice-Pres. E. L. Word, Asst. Cashier.

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Bonded Warehouses, Rightceath and Clay Streets. AUCTION SALES-To-Day.

BY BLANTON & CO., Real Estate Auctioneers. 1112 East Main Street.

TRUSTEE'S AUCTION SALE OF 2209
SHORT Q STREET, WITH LOT
FRONTING SEVENTY-SIX (76)
FEET ON THE SOUTH LINE OF Q
STREET, AND A VACANT LOT OF
LAND FRONTING THIRTY-FOUR
(34) FEET ON THE NORTH LINE
OF CARRINGTON STREET, BETWEEN TWENTY-SECOND AND
TWENTY-THIRD STREETS.
In execution of a deed of trust dated

In execution of a deed of trust dated March 31, 1914, and recorded in the clerk's office of Richmond Chancery Court. in D. B. 226-D, page 347, default having been made in the payment of a portion of the debt thereby secured and being requested so to do by the note-holder, I will seil at public auction, on the premises, on

MONDAY, MAY 22, 1916. at 4:30 o'clock P. M.,

he two parcels of real estate referred o above, and which are fully set out and described in said deed of trust. and described in said deed of trust.

TERMS: This sale is made subject to a prior lien evidenced by deed of trust dated September 22, 1912, recorded in clerk's office of Richmond Chancery Court, in D. B. 223-A, page 516, to secure the principal sum of \$1,500 and interest thereon, and the residue in cash.

SAMUEL R. CARTER,

## AUCTION SALES-Future Days

BY BLANTON & CO., teal Estate Auctioneers, 1112 East Main Street.

TRUSTEE'S AUCTION SALE
OF
ACANT LOT OF LAND FRONTING
FORTY-EIGHT FEET ON THE
SOUTH SIDE OF GROVE AVENUE.
TWENTY-SEVEN FEET WEST OF
CRENSHAW AVENUE.

In execution of a deed of trust, dated June 1, 1914, recorded in the clerk's office of Richmond Chancery Court, in D. B. 227-A, page 335, default having been made in the payment of a portion of the debt thereby secured, and being required so to do by the noteholder. I will sell at public auction, on the premises, on

THURSDAY, MAY 25, 1916, at 5 o'clock P. M.,

at 5 o'clock P. M.,
the following real estate described in said deed of trust, as follows:
All that certain lot, piece or parcel of land, lying and being in the city of Richmond. Va., on the south side of Grove Avenue, bounded and described as follows, to-wit: beginning at a point on the south line of Grove Avenue distant twenty-seven (27) feet west of the intersection of the west line of Crenshaw Avenue with the south line of Grove Avenue, thence running westwardly along the said south line of Grove Avenue and fronting thereon forty-eight (48) feet, and thence back southwardly from said front, between parallel lines, the distance of one hundred and twenty-fve (125) feet to an alley to be opened twelve (12) feet wide.

TERMS: Cash.

TERMS: Cash. W. C. BLANTON, Trustee.

BY J. D. CARNEAL & SON, Auctioneers. TRUSTEE'S AUCTION SALE

HOUSE AND LOT No. 1806 CARRING-TON STREET By virtue of a deed of trust recorded in the Richmond Chancery Court, in D. B. 214-B, page 509, default having been made in a part of the money therein secured, and being required so to do by the beneficiary, the undersigned trustee will offer for sale, on the premises, No. 1806 Carrington Street, on

the property above referred to.
This property, located as above, in
easy reach of the center of the city,
affording exceptional opportunities to
persons of moderate means as a modest
little home, or would prove a good investment for rental purposes. The lot
fronts 30x145 feet to a 15-foot alley,
and contains a dwelling of about five
or six rooms.

JOHN B. GAYLE,

NOTE.—While the terms of the deed of trust provide for cash, yet by ap-plying to the auctioneer, a reasonable loan may be obtained, making the terms easy

## AUCTION SALES-Future Days. BY POLLARD & BAGBY, Real Estate Auctioneers.

TRUSTEES AUCTION SALE OF THE

ATTRACTIVE TWO-STORY BRICK BUILDING KNOWN AS

## Nos. 2208 and 2208-A Grove Ave.

at 6 o'clock P. M.,

at 6 o'clock P. M.,
the above-mentioned property, comparatively new, consisting of two housekeeping apartments, of about seven or eight rooms each. Lot, 36 feet 4 inches by depth of 130 feet to an alley in rear.

TERMS: Enough in cash to pay cost of sale, and attorneys' fees, trustees' commission, any taxes due, and two notes, one for \$75 and one for \$22.5c. due April 13, 1916, a credit as to two notes, one for \$76,000 and one for \$1,504 both due October 13, 1916, with interest on same from date of sale, and the residue upon a credit of one and ty years, all credit payments to carry per cent interest from day of sale, and to be secured by deed of trust on the property.

EDWIN M. HELLER, H. R. POLLARD, JR., Trustees,

CHAPIN & HUME, INC., Auctioneers.

AUCTION SALE AN EIGHT-ROOM DWELLING,

## No.1403 Second Ave. Highland Park

At the request of the owner, who is determined to sell, we will offer at auction, on the premises, on TUESDAY, MAY 23, 1915,

at 5:39 o'clock P. M., at a 39 o'clock P. M.,
that attractive dwelling located on the
east side of Second Avenue, Highland
Park, Richmond, Va., containing eight
rooms, with modern improvements.
Lot fronts thirty-five feet and has a
depth of 140 feet to an alley. The
location is all that could be desired,
MUST BE SOLD. COME AND BUY A
BARGAIN.
TERMS: Easy and announced at
sale.
CHAPIN & HUME, INC.

CHAPIN & HUME, INC., BY J. D. CARNEAL & SON, Real Estate Auctioneers,

AUCTION SALE MAGNIFICENT GRACE STREET DWELLING,

## No. 406 W. Grace St., ON TUESDAY, MAY 23, 1916.

at 5:26 o'clock P. M.

on the premises, we will offer for said the above property. The lot fronts at by 150 feet to a 26-foot alley. Improvements consist of an excellent three-story, well-built brick dwelling, with a spaclous double garage. Interior of the dwelling is in good condition and hard to surpass in its appointments, having every modern convenience, such as hardwood floor-combination fixtures, three baths, etc. The dwelling has about fifteen rooms, three of which are well equipped doctors offices.

This property is admirably suited for a physician, on account of its location, and has recently been occupied by two very successful ones. It is located on the north side of Grace Street, and is rapidly enhancing in value on account of its proximity to Broad Street. If you want a splendid bargain in Grace Street property, attend this sale, as the owner is determined to sell.

TERMS: Accommodating, and announced at sale.

BY RICHESON & CRUTCHFIELD, Real Estate Agents and Auctioneers

TRUSTEE'S AUCTION SALE
OF
TWO FRAME DWELLINGS, Nos. 2064
AND 2066 WEST MOORE STREET.

BY C. L. & H. L. DENOON,
Real Estate Auctioneers.

TRUSTEE'S SALE

TRACT OF LAND IN LUNENBURG
COUNTY CONTAINING 137 ACRES,
MORE OR LESS, ABOUT FOUR
MILES FROM MEHERRIN, AND
ONE MILE FROM NUT-BUSH STATION.

By virtue of a deed of trust, dated
January 7, 1914, and of record in the
clerk's office of Lunenburg Circuit
Court, in D. B. No. 5, page 351-2-3, default having been made in payment of
the debt therein secured, and being required so to do by the holder thereof,
at 12 o'clock M.

the tract of land above mentioned, containing 137 acres, more or less, and adjoining the property now or formerly
owned by Lunenburg Lumber Company
et als., and lying on the main road
Courthouse.

TERMS: Cash as to expense of executing this trust, any taxes due and
with interest. Balance at one and two
years.

C. L. DENOON,
Trustee.

TYO FRAME DWELLINGS, Nos. 2064
AND 2066 WEST MOORE STREET.

In execution of a certain deed of
trust to the undersigned trustee, dated
January 16, 1914, recorded in the clerk's
office kichmond Chancery Court, in D.
B. 225-C, page 346, default having been
made in the payment of a part of the
debt therein secured, and being required so to do by the holder thereof,
I will sell by public auction, on the
real estate described in said deed,
as follows:

"All that certain piece, parcel or lot
fol and, with the two dwellings designated
as Nos. 2084 and 2066 West Moore
Street, between Dinneen and
Herman and being remade in the payment of a part of the
debt therein secured, and being rewill sell by public auction, on the
real estate described in said deed,
as follows:

"All that certain piece, parcel or lot
fol and with the two dwellings designated
as Nos. 2084 and 2066 West Moore
Nore Street, between Dinneen and
Herman and the payment of a part of the
debt therein secured, and being rewill sell by public auction, on the
feet will sell by public auction on the
fol land, with

BY J. THOMPSON BROWN & CO.,

Court Sale of an Extra Attractive and Commodious

# High-Grade Monument Avenue Dwelling

2020 Monument Avenue, Near Meadow St. By virtue of a decree of the Law and Equity Court, in re, the Richmond Structural Steel Co., Inc., vs. Wirt A. Chesterman's Administrator and als., entered May 18, 1916, appointing the undersigned special commissioner: so to do, we will sell at public auction, on the premises,

Thursday, May 25, at 6 P. M.

The above first-class residence, described in said decree as beginning on the north side of Monument Avenue 283.75 feet east of the east line of Allison and fronting thereon 30 feet, and extending back from said front and between parallel lines 150 feet to an alley in common 20 feet wide, etc.

This handsome four-story gray stone front, detached dwelling contains 12 or more living rooms, 4 baths and toilets, 3 pantries, numerous closets, large cious entrance hall, broken stairway, front and rear. The doors, frames, balusting fact, its late owner (one of Richmond's best-known contractors) spared neither expense or time in its superior construction, giving it special personal tion and rarely seen in other dwellings. A large two-story brick garage is

Can be inspected by appointment before or at the hour of sale. TERMS: One-third cash, balance equal installments of six, twelve and eighteen months, negotiable notes, 8 per cent interest, secured by deed of trust or reservation of title, or all cash, at option of the purchaser, and sale subject to confirmation by the court.

JO. LANE STERN, SOL CUTCHINS, Special Commissioners.

J. THOMPSON BROWN & CO., Auctioneers.

The bond required by the above decree has been given. LUTHER LIBBY, Clerk.